

CRF Errors Corrected by the STIC Systems Branch

Page NO: 18600 21013  
**RECEIVED**  
 4/29/2003  
 MAY 05 2003  
 (STIC staff)

Serial Number: 09/932, 8/2 A

CRF Processing Date: 4/29/2003  
 Edited by: A  
 Verified by: A

**ENTERED**

TECH CENTER 1600/2900

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was wrapped down to the next line
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☒ Other: Sequence 23 - moved explanation of sequence from  
<2137 line to <2237 line

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95

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1600

## RAW SEQUENCE LISTING

DATE: 04/29/2003

PATENT APPLICATION: US/09/932,812A

TIME: 12:59:30

Input Set : N:\AMC\I932812a.raw

Output Set : N:\CRF4\04292003\I932812A.raw

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1 <110> APPLICANT: Sun, Lee-Hwei K
2     Sun, Bill N
3     Sun, Cecily R
4 <120> TITLE OF INVENTION: Fc fusion proteins of human erythropoietin with
5     increased biological
6     activities
7 <130> FILE REFERENCE: 02SUN2001
C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/932,812A
9 <141> CURRENT FILING DATE: 2001-08-17
10 <160> NUMBER OF SEQ ID NOS: 28
11 <170> SOFTWARE: PatentIn version 3.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 29
15 <212> TYPE: DNA
16 <213> ORGANISM: Artificial Sequence
17 <220> FEATURE:
18 <223> OTHER INFORMATION: PCR primer
19 <400> SEQUENCE: 1
20     cccaagcttg gcgcggagat gggggtgca                29
22 <210> SEQ ID NO: 2
23 <211> LENGTH: 27
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: PCR primer
28 <400> SEQUENCE: 2
29     cggatccgtc ccctgtcctg caggcct                27
31 <210> SEQ ID NO: 3
32 <211> LENGTH: 20
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: PCR primer
37 <400> SEQUENCE: 3
38     gagcgcaaatt gttgtgtcga                20
40 <210> SEQ ID NO: 4
41 <211> LENGTH: 28
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: PCR primer
46 <400> SEQUENCE: 4
47     ggaattctca ttaccgga gacagga                28

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## RAW SEQUENCE LISTING

DATE: 04/29/2003

PATENT APPLICATION: US/09/932,812A

TIME: 12:59:30

Input Set : N:\AMC\I932812a.raw

Output Set: N:\CRF4\04292003\I932812A.raw

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49 <210> SEQ ID NO: 5
50 <211> LENGTH: 29
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: PCR primer
55 <400> SEQUENCE: 5
56      tggttttctc gatggaggct gggaggcct      29
58 <210> SEQ ID NO: 6
59 <211> LENGTH: 29
60 <212> TYPE: DNA
61 <213> ORGANISM: Artificial Sequence
62 <220> FEATURE:
63 <223> OTHER INFORMATION: PCR primer
64 <400> SEQUENCE: 6
65      aggcctccca gcctccatcg agaaaacca      29
67 <210> SEQ ID NO: 7
68 <211> LENGTH: 69
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: PCR primer
73 <400> SEQUENCE: 7
74      cggatccggt ggcggttccg gtggaggcgg aagcggcggt ggaggatcag agcgcaaatg      60
75      ttgtgtcga      69
77 <210> SEQ ID NO: 8
78 <211> LENGTH: 21
79 <212> TYPE: DNA
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81 <220> FEATURE:
82 <223> OTHER INFORMATION: PCR primer
83 <400> SEQUENCE: 8
84      gagtccaaat atggtccccc a      21
86 <210> SEQ ID NO: 9
87 <211> LENGTH: 28
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: PCR primer
92 <400> SEQUENCE: 9
93      ggaattctca tttaaccaga gacaggga      28
95 <210> SEQ ID NO: 10
96 <211> LENGTH: 21
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: PCR primer
101 <400> SEQUENCE: 10
102      cctgagttcg cggggggacc a      21

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TIME: 12:59:30

Input Set : N:\AMC\I932812a.raw

Output Set: N:\CRF4\04292003\I932812A.raw

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108 <220> FEATURE:
109 <223> OTHER INFORMATION: PCR primer
110 <400> SEQUENCE: 11
111      gagtccaaat atggtccccc atgccaccca tgcccagcac ctgagttcgc ggggggacca      60
113 <210> SEQ ID NO: 12
114 <211> LENGTH: 70
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: PCR primer
119 <400> SEQUENCE: 12
120      cggatccggt ggcggttccg gtggaggcgg aagcggcggt ggaggatcag agtccaaata      60
121      tggccccca      70
123 <210> SEQ ID NO: 13
124 <211> LENGTH: 21
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: PCR primer
129 <400> SEQUENCE: 13
130      gacaaaactc acacatgccc a      21
132 <210> SEQ ID NO: 14
133 <211> LENGTH: 23
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: PCR primer
138 <400> SEQUENCE: 14
139      acctgaagtc gcggggggac cgt      23
141 <210> SEQ ID NO: 15
142 <211> LENGTH: 55
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: PCR primer
147 <400> SEQUENCE: 15
148      gacaaaactc acacatgccc accgtgccca gcacctgaag tcgcgggggg accgt      55
150 <210> SEQ ID NO: 16
151 <211> LENGTH: 70
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: PCR primer
156 <400> SEQUENCE: 16
157      cggatccggt ggcggttccg gtggaggcgg aagcggcggt ggaggatcag acaaaaactca      60

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Input Set : N:\AMC\I932812a.raw

Output Set: N:\CRF4\04292003\I932812A.raw

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158      cacatgccca                                     70
160 <210> SEQ ID NO: 17
161 <211> LENGTH: 1332
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: HuEPO-L-vFc gamma2 (Figure 2A)
166 <400> SEQUENCE: 17
167      aagcttggcg cggagatggg ggtgcacgaa tgtcctgcct ggctgtggct tctcctgtcc      60
168      ctgctgtcgc tccctctggg cctcccagtc ctgggcgccc caccacgcct catctgtgac      120
169      agccgagtcg tggagaggta cctcttggag gccaaaggag ccgagaatat cagcaggggc      180
170      tgtgtctgaac actgcagctt gaatgagaat atcactgtcc cagacaccaa agttaatttc      240
171      tatgcctgga agaggatgga ggtcggggcag caggccgtag aagtctggca gggcctggcc      300
172      ctgctgtcgg aagctgtcct gcggggccag gccctgttgg tcaactcttc ccagccgtgg      360
173      gagcccctgc agctgcatgt ggataaagcc gtcagtggcc ttcgcagcct caccactctg      420
174      cttcgggctc tgggagccca gaaggaagcc atctcccctc cagatgcggc ctcagctgct      480
175      ccactccgaa caatcactgc tgacactttc cgcaaactct tccgagtcta ctccaatttc      540
176      ctccggggaa agctgaagct gtacacaggg gaggcctgca ggacagggga cggatccggt      600
177      ggcggttccg gtggaggcgg aagcggcggt ggaggatcag agcgcaaagt ttgtgtcgag      660
178      tgcccaccgt gccagcacc acctgtggca ggaccgtcag tcttctctt cccccaaaa      720
179      cccaaggaca ccctcatgat ctcccgacc cctgaggtca cgtgcgtggt ggtggacgtg      780
180      agccacgaag accccgaggt ccagttcaac tggtagctgg acggcgtgga ggtgcataat      840
181      gccaaagaaa agccacggga ggagcagttc aacagcacgt tccgtgtggt cagcgtcttc      900
182      accgttgtgc accaggactg gctgaacggc aaggagtaca agtgcaaggt ctccaacaaa      960
183      ggccctccag cctccatcga gaaaaccatc tccaaaacca aagggcagcc ccgagaacca      1020
184      caggtgtaca ccctgcccc atcccgggag gagatgacca agaaccaggt cagcctgacc      1080
185      tgctgtgtca aaggcttcta cccagcgcac atcgccgtgg agtgggagag caatgggcag      1140
186      ccggagaaca actacaagac cacacctccc atgctggact ccgacggctc cttcttcttc      1200
187      tacagcaagc tcaccgtgga caagagcagg tggcagcagg ggaacgtctt ctcatgtctc      1260
188      gtgatgcatg aggtctctga caaccactac acgcagaaga gcctctccct gtctccgggt      1320
189      aaatgagaat tc                                     1332
191 <210> SEQ ID NO: 18
192 <211> LENGTH: 436
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: HuEPO-L-vFc gamma2 with a 27-amino acid leader peptide
197      (Figure 2
198      A)
199 <400> SEQUENCE: 18
200      Met Gly Val His Glu Cys Pro Ala Trp Leu Trp Leu Leu Ser Leu
201      1              5              10              15
202      Leu Ser Leu Pro Leu Gly Leu Pro Val Leu Gly Ala Pro Pro Arg Leu
203      20              25              30
204      Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu Glu Ala Lys Glu
205      35              40              45
206      Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu
207      50              55              60
208      Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg

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Input Set : N:\AMC\I932812a.raw

Output Set: N:\CRF4\04292003\I932812A.raw

209	65				70				75				80
210	Met	Glu	Val	Gly	Gln	Ala	Val	Glu	Val	Trp	Gln	Gly	Leu
211					85				90				95
212	Leu	Ser	Glu	Ala	Val	Leu	Arg	Gly	Gln	Ala	Leu	Leu	Val
213				100				105				110	
214	Gln	Pro	Trp	Glu	Pro	Leu	Gln	Leu	His	Val	Asp	Lys	Ala
215			115				120					125	
216	Leu	Arg	Ser	Leu	Thr	Thr	Leu	Leu	Arg	Ala	Leu	Gly	Ala
217			130				135					140	
218	Ala	Ile	Ser	Pro	Pro	Asp	Ala	Ala	Ser	Ala	Ala	Pro	Leu
219			145			150				155			160
220	Thr	Ala	Asp	Thr	Phe	Arg	Lys	Leu	Phe	Arg	Val	Tyr	Ser
221				165						170			175
222	Arg	Gly	Lys	Leu	Lys	Leu	Tyr	Thr	Gly	Glu	Ala	Cys	Arg
223			180						185				190
224	Gly	Ser	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly
225			195				200					205	
226	Glu	Arg	Lys	Cys	Cys	Val	Glu	Cys	Pro	Pro	Cys	Pro	Ala
227			210				215					220	
228	Ala	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
229			225			230					235		240
230	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
231				245						250			255
232	His	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp
233			260						265				270
234	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe
235			275				280					285	
236	Phe	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Val	His	Gln	Asp
237			290				295					300	
238	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu
239			305			310					315		320
240	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Thr	Lys	Gly	Gln	Pro	Arg
241				325						330			335
242	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys
243			340						345				350
244	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
245			355				360					365	
246	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
247			370			375						380	
248	Pro	Met	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
249			385			390					395		400
250	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
251				405					410				415
252	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
253			420						425				430
254	Ser	Pro	Gly	Lys									
255			435										
257	<210>	SEQ	ID	NO:	19								
258	<211>	LENGTH:	1335										

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/932,812A

DATE: 04/29/2003  
TIME: 12:59:31

Input Set : N:\AMC\I932812a.raw  
Output Set: N:\CRF4\04292003\I932812A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:18; Line(s) 196  
Seq#:20; Line(s) 293  
Seq#:22; Line(s) 390

**VERIFICATION SUMMARY**

DATE: 04/29/2003

PATENT APPLICATION: US/09/932,812A

TIME: 12:59:31

Input Set : N:\AMC\I932812a.raw

Output Set: N:\CRF4\04292003\I932812A.raw

L:8 M:270 C: Current Application Number differs, Wrong Format